

Element Materials Technology - Fort Wayne 328 Ley Rd. Fort Wayne, IN 46825 TEL: (260) 424-1622 FAX: (260) 424-9124 Website: www.element.com

June 25, 2019

Nickie Geros East Chicago Sanitary District 5201 Indianapolis Blvd East Chicago, IN 46312

TEL: 219-391-8466

FAX:

RE: #901 Order No.: 19062016

Dear Nickie Geros:

Element Materials Technology - Fort Wayne received 2 sample(s) on 6/18/2019 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ryan Fitzwater

General Manager

328 Ley Rd.

Fort Wayne, IN 46825

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Page 1 of 18

Original



Element Materials Technology - Fort Wayne 328 Ley Rd.

Fort Wayne, IN 46825

TEL: (260) 424-1622 FAX: (260) 424-9124

Website: www.element.com

Case Narrative

WO#: 19062016 6/25/2019 Date:

East Chicago Sanitary District **CLIENT:**

#901 **Project:**

OIA-1677 Available Cyanide subcontracted to TestAmerica. The subcontract data report is attached in its entirety.



Element Materials Technology - Fort Wayne

328 Ley Rd. Fort Wayne, IN 46825

TEL: (260) 424-1622 FAX: (260) 424-9124

Website: www.element.com

Analytical Report

(wastewater)

WO#: 19062016 Date Reported 6/25/2019

CLIENT: East Chicago Sanitary District Collection Date: 6/17/2019 8:51:00 AM

Project: #901

Lab ID: 19062016-001 Matrix: WASTEWATER

Client Sample ID #901

Sample Location:

Analyses	Result	RL Qua	ıl Units	DF	PL	Date Analyzed
OIL AND GREASE, TOTAL				E1664		Analyst: JGB
Oil & Grease, Total	7.9	5.0	mg/L	1	50.0	6/19/2019 9:00:00 AM
OIL AND GREASE, NON POLAR				E1664		Analyst: JGB
Oil & Grease, Petroleum	6.5	5.0	mg/L	1	50.0	6/25/2019 5:05:25 PM
SV COMPOUNDS FOR CATEGORIC	AL RQTS			E625		Analyst: GB
Bis(2-ethylhexyl)phthalate	< 0.10	0.10	mg/L	10	0.16	6/23/2019 7:07:00 PM
Carbazole	< 0.10	0.10	mg/L	10		6/23/2019 7:07:00 PM
Fluoranthene	< 0.050	0.050	mg/L	10	0.054	6/23/2019 7:07:00 PM
n-Decane	< 0.10	0.10	mg/L	10		6/23/2019 7:07:00 PM
n-Octadecane	< 0.10	0.10	mg/L	10		6/23/2019 7:07:00 PM
SEMI-VOLATILES IN WW				E625		Analyst: GB
Phenanthrene	< 0.10	0.10	mg/L	10		6/23/2019 7:07:00 PM

Qualifiers:

Value exceeds Maximum Contaminant Level

Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

H Holding times for preparation or analysis exceeded

M Manual Integration used to determine area response

PL Permit Limi

RL Reporting Detection Limit



 ${\it Element\ Materials\ Technology\ -\ Fort\ Wayne}$

328 Ley Rd.

Fort Wayne, IN 46825

TEL: (260) 424-1622 FAX: (260) 424-9124 Website: www.element.com **Analytical Report**

(wastewater)

WO#: 19062016

Date Reported 6/25/2019

CLIENT: East Chicago Sanitary District Collection Date: 6/17/2019 8:51:00 AM

Project: #901

Lab ID: 19062016-002 Matrix: WASTEWATER

Client Sample ID #901

Sample Location:

Analyses	Result	RL Qu	al Units	DF PL	Date Analyzed
FLUORIDE			E	300.0	Analyst: SKV
Fluoride	5.3	0.1	* mg/L	1 2.9	6/20/2019 2:52:00 PM
CHEMICAL OXYGEN DEMAND			M	5220 D	Analyst: DDE
Chemical Oxygen Demand	684	10.0	mg/L	1	6/20/2019 2:03:00 PM
AMMONIA AS N			Е	350.1	Analyst: AJE
Nitrogen, Ammonia (As N)	43.2	0.400	mg/L	4 77.0	6/20/2019 11:54:00 AM
PHENOLICS IN WASTEWATER			Е	420.1	Analyst: MNF
Phenolics, Total Recoverable	0.064	0.025	mg/L	1 0.700	6/22/2019 2:01:23 PM
TOTAL PHOSPHORUS			M4	500-P F	Analyst: AN
Total Phosphorus	0.248	0.100	mg/L	1 5.50	6/20/2019 3:54:29 PM
TOTAL SUSPENDED SOLIDS			M2	2540 D	Analyst: DDE
Suspended Solids (Residue, Non-Filterable)	34	10	mg/L	1	6/21/2019 1:34:00 PM
MERCURY			E	245.1	Analyst: SF
Mercury	< 0.00010	0.00010	mg/L	1	6/20/2019 2:32:43 PM

Qualifiers:

Value exceeds Maximum Contaminant Level

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

H Holding times for preparation or analysis exceeded

M Manual Integration used to determine area response

PL Permit Limi

RL Reporting Detection Limit



Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-91464-1

Client Project/Site: Cyanide 19062016

For:

Element Materials Technology 328 Ley Rd Suite100 Fort Wayne, Indiana 46825

Attn: Katie Hernandez

Authorized for release by: 6/24/2019 10:46:29 AM

Dominic Nestasie, Manager of Project Management (412)963-2453

dominic.nestasie@testamericainc.com

Review your project

results through
Total Access

Have a Question?



Visit us at: www.testamericainc.com This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

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Case Narrative

Client: Element Materials Technology Project/Site: Cyanide 19062016 Job ID: 180-91464-1

Job ID: 180-91464-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-91464-1

Receipt

The sample was received on 6/19/2019 at 8:45 AM; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at time of receipt was 3.1° C.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Element Materials Technology Job ID: 180-91464-1

Project/Site: Cyanide 19062016

Glossary

MDC

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac Dilution Factor DL Detection Limit (DoD/DOE) DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry) **EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) Minimum Detectable Activity (Radiochemistry) MDA

MDL Method Detection Limit
ML Minimum Level (Dioxin)
NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Concentration (Radiochemistry)

PQL Practical Quantitation Limit

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

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Accreditation/Certification Summary

Client: Element Materials Technology Job ID: 180-91464-1 Project/Site: Cyanide 19062016

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State		2891	04-30-20
California	State Program	9	2891	04-30-20
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Florida	NELAP		E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Illinois	NELAP		004375	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Kentucky (UST)	State Program	4	162013	04-30-20
Kentucky (WW)	State Program	4	KY98043	12-31-19
Louisiana	NELAP	6	04041	06-30-19
Nevada	State		PA00164	07-31-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New Jersey	NELAP		PA005	06-30-19 *
New York	NELAP	2	11182	03-31-20
New York	NELAP		11182	04-01-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Oregon	NELAP		PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-20
Pennsylvania	NELAP		02-00416	04-30-20
South Carolina	State Program	4	89014	04-30-20
Texas	NELAP	6	T104704528-15-2	03-31-20
Texas	NELAP		T104704528	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
US Fish & Wildlife	US Federal Programs		058448	07-31-20
USDA	Federal		P330-16-00211	06-26-19
USDA	US Federal Programs		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
Virginia	NELAP		10043	09-14-19
West Virginia DEP	State		142	01-31-20
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State		998027800	08-31-19
Wisconsin	State Program	5	998027800	08-31-19

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Test Americal, Pittsburgh

Sample Summary

Client: Element Materials Technology Project/Site: Cyanide 19062016

Job ID: 180-91464-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-91464-1	19062016-001A	Water	06/17/19 08:51	06/19/19 08:45	

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Method Summary

Client: Element Materials Technology Project/Site: Cyanide 19062016 Job ID: 180-91464-1

Method	Method Description	Protocol	Laboratory
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	TAL PIT

A

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

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Lab Chronicle

Client: Element Materials Technology Job ID: 180-91464-1

Project/Site: Cyanide 19062016

Lab Sample ID: 180-91464-1 Client Sample ID: 19062016-001A

Date Collected: 06/17/19 08:51 **Matrix: Water**

Date Received: 06/19/19 08:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	OIA - 1677		1			282494	06/20/19 15:16	CAK	TAL PIT
	Instrument	ID: VI DKEM3								

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Analysis CAK = Chuck Kieda

Client Sample Results

Client: Element Materials Technology
Project/Site: Cyanide 19062016

Job ID: 180-91464-1

. Matrix: Water

Date Collected: 06/17/19 08:51 Date Received: 06/19/19 08:45

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	0.055		0.0020	0.00036	mg/L			06/20/19 15:16	1

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Client: Element Materials Technology Job ID: 180-91464-1

Project/Site: Cyanide 19062016

Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

Client Sample ID: Method Blank

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Prep Type: Total/NA

Analysis Batch: 282494

Lab Sample ID: MB 180-282494/45

Matrix: Water

Cyanide, Available

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Cyanide, Available 0.0020 0.00036 mg/L 06/20/19 15:14 ND

Lab Sample ID: LCS 180-282494/44 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 282494

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits

0.0501

Lab Sample ID: 180-91464-1 MS Client Sample ID: 19062016-001A

0.0505

mg/L

Matrix: Water Prep Type: Total/NA

Analysis Batch: 282494 Sample Sample Spike MS MS %Rec.

Analyte Result Qualifier Added Result Qualifier Unit Limits %Rec Cyanide, Available 0.0501 82 - 130 0.055 0.0987 mg/L 88

Lab Sample ID: 180-91464-1 MSD Client Sample ID: 19062016-001A Prep Type: Total/NA

Matrix: Water

Analysis Batch: 282494

Sample Sample Spike MSD MSD %Rec. **RPD** RPD Limits Analyte Result Qualifier Added Result Qualifier D %Rec Limit Unit Cyanide, Available 0.055 0.0501 0.102 93 82 - 130 mg/L

QC Association Summary

Client: Element Materials Technology
Project/Site: Cyanide 19062016

Job ID: 180-91464-1

General Chemistry

Analysis Batch: 282494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-91464-1	19062016-001A	Total/NA	Water	OIA - 1677	
MB 180-282494/45	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-282494/44	Lab Control Sample	Total/NA	Water	OIA - 1677	
180-91464-1 MS	19062016-001A	Total/NA	Water	OIA - 1677	
180-91464-1 MSD	19062016-001A	Total/NA	Water	OIA - 1677	

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Omega COCID 121401

CHAIN OF CUSTODY RECORD

element

OF: PAGE:

Element Materials Technology - Fort Wayne

ADDRESS

328 Ley Rd.

Fort Wayne, IN 46825

TEL: (260) 424-1622 FAX: (260) 424-9124

Website: www.element.con

SUB CONTI	SUB CONTRATOR: TEST_AMERICA	A COMPANY:	Test America		SPECIAL INSTRUCTIONS / COMMENTS:	COMMENTS.	
ADDRESS:	Sample Receiving	D 0					
CITY, STAT	CITY, STATE, ZIP. Nashville, TN 37204	204					
PHONE: (8	PHONE: (800) 765-0980 FAX: (615) 726-3404	15) 726-3404 EMAIL:	E:				
ACCOUNT #:	#				-P#	#EFW029349	
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF COMMENTS Methanol Preserved Weights CONTAINERS HOT Sample Notation, Additional Sample Description.	
,	19062016-001A	#901	500HDPENAOH	Wastewater	6/17/2019 8:51:00 AM	-	
7	CYAN_FREE						



Relinquished By Time Time Re	Date: 6/18/2019	Time	Received By:	Dark	Date 19 14 Time	ay C	REPORT	REPORT TRANSMITTAL DESIRED:	AL DESIRED:	
Selinquished By:	Date:	Time:	Received By:	Date:	I	Time:	HARDCOPY (extra cost)	□ FAX	EMAIL	ONLINE
Relinquished By:	Date:	Time:	Received By:	Date:	1	Time.		FOR LAB USE ONLY	ONLY	
of 18	Standard	RUSH	Next BD	2nd BD	3rd BD		Temp of samples	S. A	Attempt to Cool?	
			Note: RUSH reque	Note: RUSH requests will incur surcharges!	ı;					
							D D N N N N N N N N N N N N N N N N N N	からん	175/1	

Login Sample Receipt Checklist

Client: Element Materials Technology Job Number: 180-91464-1

Login Number: 91464 List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Radioactivity wasn't checked or is <th>Creator. Say, monas C</th> <th></th> <th></th>	Creator. Say, monas C		
meter. The cooler's custody seal, if present, is intact. Sample custody seals, if present, are intact. True The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. COC is present. COC is present. COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTS) Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. Sample Preservation Verified. True There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). Multiphasic samples and not require splitting or compositing. True MS/MSDs Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). Multiphasic samples are not present. True	Question	Answer	Comment
Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. True Cooler Temperature is recorded. True COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the containers received and the COC. Samples are received within Holding Time (excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. True Sample Preservation Verified. There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). Multiphasic samples an ot present. True True True Samples do not require splitting or compositing. True	•	True	
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MS/MSDs Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). Multiphasic samples are not present. Samples do not require splitting or compositing. True	Sample Preservation Verified.	True	
<6mm (1/4"). Multiphasic samples are not present. Samples do not require splitting or compositing. True		True	
Samples do not require splitting or compositing. True		True	
	Multiphasic samples are not present.	True	
Residual Chlorine Checked N/A	Samples do not require splitting or compositing.	True	
Trocked Chieffed	Residual Chlorine Checked.	N/A	

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elemer

Chain of Custody V175

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Number: 906 2039

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No Temp: 7 7	†Wes ∏No		H	+	1	0	1	1	10101	1	Proposition of the same	-		101		Y	3
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NG = Natural Gas NGL = Natural Gas Liquid		•	ELEMENT	ELEN					□Yes								Fax Number:
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Page 1 of 2		. :	ımber	me/Nu	Project Name/Number:	Proj		.7	PO Number:			mation:	Billing Information:			Client information:) !

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples.

Element Materials Technology reserves the right to return unused sample portions.

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